

COLLEGIATE



NOTE BOOK

11301 - 11349

Name _____

No. R 67-16

10c

Arthur Cronquist

New York Botanical
Garden

Bronx, New York 10458

\$10.00 REWARD

for return

11301 - 25 April, 1975

New Jersey, Atlantic Co.

Along the edges of ponds
and slowly moving
water in pine barren

country 5 miles north-
east of Hammonton.

Plants ca 6 dm tall,
evergreen, forming large
colonies lining the
margins of the water.

Flowers white.

Chamaedaphne

calyculata (L) Moench

U.600

Chamaedaphne c. ①

11302. 25 April, 1975

New Jersey, Atlantic Co.

Low, wet pine barren
country 5 miles northeast
of Hammonton. Openly

branched, slender shrubs

ca 1.5 tall. Petals

white, distinctly less
than 1 cm. long.

Every glabrous across
the top.

Amelanchier obovalis

(Michx.) Ashe

Amelanchier obovalis Ⓢ

11303 - 11 May, 1975

Clinton Co., New York

Mixed hardwood and coniferous forest on Ordovician limestone substrate ca 5 km. northwest of Scio. Elev.

ca 100 m. Peduncles declined, the flowers held above or sometimes a little below the leaves. Petals

maroon-purple. Ovary colored like the petals.

L-winged and -mucosae

Filaments slightly more than half as long as the anthers.

Trillium erectum L. ✓

Trillium erectum ①

11304 - 11 May, 1975

Clinton Co., N.Y.

Same place as 11303.

Flowers erect.

Petals white, ~~slightly~~
slightly streaked with
pink or pink-purple, and
with an irregular,
bright purple crescent
near the base. Filaments
about equalling or a
little longer than the
anthers. Ovary with
3 broadly rounded
angles and shallow
grooves

Trillium undulatum
Willd.

Trillium undulatum

11305 - 11 May, 1975

Clinton Co., New York.

Same place as 11303.

Plants colonial, ~~producing~~
the colonies producing
many single leaves from
small bulbs, and rela-
tively few two-leaved
flowering plants from
somewhat larger bulbs.
~~The~~ Tepals yellow, but
the ~~petals~~ sepals commonly
somewhat greenish or
anthocyanic on the back.
Anthers maroon red.

Erythronium americanum
Ker

Erythronium ①

11306 11 May, 1975

Clinton Co., N.Y. Moist,
low places in mixed
coniferous and hardwood
forest on Ordovician
limestone substrate ca 5 km
northwest of Sciota. Elevation
ca. 100m. Rhizomes bright
orange-yellow. Tepals mostly
5 or 6, sometimes 4 or 7,
white above, often
marked with anthocyanin
on the back. Leaves persist-
ent throughout the winter.
New leaves just now being
formed.

Coptis trifolia (L.) Salisb.

Coptis trifolia (3)

11307 11 May, 1975

Clinton Co., N.Y.

In mixed coniferous and
hardwood forest on Ordo-
vician limestone substrate
ca 5 km. northwest of
Sciota. Elev. ca. 100 m.
Plants evergreen.

Lycopodium lucidulum
Michx.

✓
Lycop. lucidulum (2)

11306 - 11 May, 1975

Clinton Co., N.Y. In fairly
well drained site on lime-
stone substrate in mixed
coniferous and hardwood
forest ca 5 km. northwest
of Sciota. Elev. ca. 100 m.

Plants with a short, stout,
sometimes branched rhizome,
tending to form small,
compact clusters, beginning
to bloom as the leaves
expand. Petals all glabrous,
white, the spurred one
with conspicuous purple
lines, the lateral ones less so.
Plants resembling a very hairy
form of *V. pallens* (# 11309) except
for the clumpy habit, but forming
distinctive local pop -

11309 11 May, 1975

Openings in the edge of
mixed coniferous and
hardwood forest on Carbona-
ian limestone substrate ca 5
km northwest of Sciota, Ill.
ca 100-150 m. Plants loosely
colonial by the roots, very
slender rhizomes and/or stolons,
glossous to sometimes shortly
and sparsely or even rather
densely spreading hairy.
Petals white, the spread
ones with conspicuous
purple lines, the lateral
ones less so. Lateral petals

TO next page

relations:

Viola renifolia A. Gray

Viola (2)

~~11310~~

11309. can. l.

sparsely short. leaves
varying to sometimes
glabrous. Spurred
petal and upper petals
glabrous

Viola pallens (Banks)
Brainerd

✓

Viola pallens (2)

11310 - 11 May, 1975.

Clinton Co., N.Y. In
mixed coniferous and
hardwood forest on Ordo-
vician limestone substrate
ca 5 ~~miles~~ km. northwest
of Sciota. Elev. ca 100-150
m. Tepals mostly 6,
occasionally 7, white
or sometimes light
blue-lavender.

~~Hepatica~~

✓
Hepatica americana
(DC.) Ker.

Hepatica a. (2)

11311 Winters Co, 114
Cathlamet 114 May 1900

On flat top of Ordovician
limestone around the edge
of a hemlock-hardwood
forest, ca 3.4 m. west of
Cathlamet. Elev. nearly 200 m.
Stems 2-3 m. tall,
sterile, scabrous,
pubescent, scabrous,
sometimes with
reddish tips.

Salix hellobiana Sargent
bebbiana

Salix hellobiana

11312 - 11 May, 1975

Clinton Co. N.Y. Around
edge of hemlock-hardwood
forest on flat-lying
Ordovician limestone
ca 3 km west of Sciota.
Soil, nearly loam.
Petals with strong
border pink lines on
a ~~very~~ white or
nearly white background.

Claytonia caroliniana
Michx.

✓

Claytonia ca. (3)

11313 Franklin Co. Mass.

17 May, 1975. In
hemlock-hardwood
forest ca 3 km north-
west of Repples Park,
Town of Wendell. Elev
150-200 m. Lay, slender,
springly branched
shrubs mostly 1-2 m.
tall. Flowers white.
The marginal areas
enlarged and irregular.

Viburnum alnifolium
Marsh.

Viburnum alnifol (2)

11314. Franklin Co., Mass.,
17 May, 1934. Along old
road in hemlock-hardwood
forest along Lynne's Brook,
ca. 1 km. northwest of
Ruggles Pond, town of
Wendell. Elev. ca. 100 m.

Delicate perennial, with
very slender, short
rhizomes, forming mats
up to 1-2 dm. wide,
from which the
erect flowering stems arise.
Corolla limb light blue-
lavender with a yellow
eye, throat yellow.

↓
Houstonia caerulea L.

Houstonia caerulea L.

11315 - 1.5 mi. N. of Bo. Mass.
17 May, 1975. In low-lying
deciduous forest near Lyon
Brook, ca 1 km north-
west of Ruggles Pond
Town of Wendell, Mass.
ca. 150 m. Flowers
white with purple
guides lines on the spread
petals and to some extent
on the lateral petals.
Petals all glabrous. Leaves
mostly with deep and
narrow sinuses.

Viola blanda Willd.

Viola blanda

(2)

11316 Franklin Co., Mass.

17 May, 1975. In hardwood-
hardwood forest ca. 1 km.
northwest of Ruggles
Park, town of Wendell.
Shrub ca. 150 m. Stem
deciduously attached to a
deep-seated, globose,
corm-like root mostly
1-1.5 cm. thick. Flowers
white.

Panax trifolium L.

Panax trifolium (3)

11317 - Franklin Co., Mass.

17 May, 1975. In rather
thin soil on granite rocks
in openings in hemlock-
hardwood forest along
the crest of Jerusalem
Hill, town of Wendell,
Mass., ca 200 m. Plants
~~2-4 dm tall~~ colonial, rhizomatous.
Flowers white.

On southerly ridge of

Vaccinium angustifolium

✓ Ait.

Vaccinium angusti ②

11378 - Franklin Co. Mass.
17 May 1975. In thin soil
on granite rocks in openings
~~along the~~ in hemlock
- hardwood forest along
the crest of the southern
ridge of Jerusalem Hill
Town of Wendell.

Elev. ca 200 m. Perigynia
minutely spreading -
hirsute. Stigmas 3.

Carex nigromarginata ✓

Schw., sens. lat.

nearest var. *muhlenbergii*

(A. Gray) Gleason

(*C. artitecta* Mack.)

Carex nigromarginata (4)

11319. Franklin Co. Mass.
18 May, 1975. In hemlock-
hardwood forest ca 2 km
northwest of Peggles Pond.
Town of Wendell. Elev.
ca 150-200 m. Herbage
short, stout, mostly
erect, reddish. Flowers
blue-violet, the spurred
petal and the lateral petals
banded with
cylindrical-acicular
hairs.

Viola septentrionalis Greene

Viola papilionacea (L.)

11320 - Franklin Co. Mass.

18 May, 1975. In wet soil
along seeping tributary
to Chestnut Hill Brook
in hemlock-hardwood
forest area ca 1 km.
northeast of North Leverett.

Elev.

Flowers rather light
blue. Saucer, the 2
lateral petals, only,
with a band of short,
clavate-bristly hairs!

Viola cucullata Ait.

Viola cucullata

(3)

11721 - 2 May 1955, M. L.
Clinton Co., New York,

In moist bottomland
near edge of swampy area.

Plants numerous
forming a dense mat.

Stems 5 dm. no
flowers.

Stems ca. 100 cm.
leaves numerous.

Stems numerous
to ca 6 dm. high.

Stems ca. 100 cm.
leaves numerous.

Galium asprellum
Michx. V

11373 - 2 August 1938

Same place as 11321.

Plants prostrate, usually
ascending, an annual.
Resembling an other
vegetation. Flowers
dull pinkish-white.

Galium triflorum Michx.

✓

11323. 2 August 1940

Clinton Co., N.Y. Open
fields in woods. Ground
covered by old leaves and
mosses. Plants
are low, flat, lying
underneath. They have
a stem with leaves
of light, thin texture.

Thelypteris

novboracensis (L.) Nieuwl.



11324 - 2 August 1946
Cattaraugus Co. New York

In light-colored
situation, second growth
mixed coniferous and
hardwood forest on a
flat-lying sandstone
formation, with some
northern flora.
Flowers yellow.

✓
Galium verum L.

Galium (?)

11325 - 2 August 1975

Same place as 11324.

Flaming yellow.

Potentilla argentea L.

Potentilla (5)

11326 2 August 1976

Clinton Co., N.Y. In
light shade in second growth
mixed hardwood and
coniferous forest on
flat, lying beds of
limestone, with
occasional patches of
clay shale.

Plants with flaccid
stems, forming a
dense, open mat.
~~Flowers~~ Flowers pale
greenish.

V

Hydrocotyle americana L.

Hydrocotyle

11327 - 2 August 1977

Chesapeake, W.V., in more
open areas, disturbed
sites, on recent gravel
mixed hardwood and
softwood forest, on
flat, dry, exposed
horizontal soil 5-10
cm. deep, sparse,
low, sandy.

Stems solitary;
plants usually
short-lived.
Flowers white or
pinkish. ✓

Epilobium ciliatum Reb.

Epilobium (2)

11326 August 1975
Same place as 11327
Stems solitary, fls.
white, short-lived.
Petals black, yellow

Potentilla norvegica L.

Potentilla (2)

1874, 3 August, 111
Fitchburg, Mass. In
abundant numbers
- 2-4 in. -
H. Apple Pond,
Fitchburg, Mass.
Elev. ca. 150-200 ft.
Petals 2, obcordate,
white.

Circaea quadrangulata
(Maxim.) Franch. & Sav.
Var. *canadensis* (L.) Horn.

Circaea (2)

18730 3 August 1905

Franklin Co., Mass.

In a meadow on
granitic substrate
on the south side
of Foxcroft Hill.
East of road, south of
Hagley Pond, Town
of Whitwell, Ohio.

Stems in. Corolla
mainly white, the
lower lip yellowish
especially about the
palate.

Melampyrum lineare Desr.
var. *americanum* (Michx.)

Beauverd

det. Norw. H. Holmgren

Melampyrum (2)

1172 10 August, 1971

Rocky Mountain Co., Va.

Edge of red sandstone
west slope

Massachusetts Mt.,

between Washington

and Mass. state

600 m.

Flowers light white.

Flowers in the terminal

raceme, perfect.

Stems of the lateral

branches staminate



Stenanthium gramineum
(Ker) Morong

Stenanthium (3)

11 332. 23 Aug. 1976

Clinton Co., N.Y.

Wet meadow and swampy
area with growth of

on sandstone. Limestone

substrate in bottom.

Leaves along a small

stream, 2-5 km. north-

west of Sciota, Ill.

ca. 100 m. stems

growing upright, few

together, 1-1.5 m. tall

rather polygamous

ca. 1 m. tall. Infl.

white, many in the

flat-topped. ✓

Eupatorium maculatum L.

var. *maculatum*

Eupatorium maculatum

11333. 28 Aug 1975

Wilson Co. Mo. Same
place as 11332.

Stems arising singly
from short rhizome.
Leaves dull white,
ca. ~~14-20~~ 14-20
in leaf head.

6-14 dm tall

Eupatorium perfoliatum L.

Eup. perfoliatum (2)

11334 - 28 Aug 55.
Clinton Co. NY.

Same place as 11332
Stem hollow, not
thickened at the base.
Flowers white

Sium suave Walter

✓

Sium suave (5)

11335 - 2 Aug 1975

Putnam Co., N.Y.

Stems 1-3 together 11332

Stems 1-3 together
from a short rhizome,
6-10 dm. tall, 1 lower
leaf 17-24 in. long,
bright white.

Eupatorium rugosum Houtt.

V

Eupatorium rugosum

11336 - 23 Aug 1975
Clinton Co. N.Y.
Savoy 12124

Boehmeria cylindrica
(L.) Sw.

✓

Boehmeria (3)

1332 23 Aug 1975

Montana, 14

Low plant, 1332

Stems arising
single from a
fleshy, rooted base.
Flowers red.

Lobelia cardinalis L.

Lobelia cardinalis (2)

11335 - 23 Aug 1971

Cleburn Co, NY.

Same place 11332

Stems loosely clustered,
without long
creeping rhizomes.

Carex lurida Wahlenb.

✓

Carex ~~lurida~~ (C)

11339-23 Aug. 1979.

Spokane, W. Mont. soil
near place 1133.

Stems clustered, very
young and weak, the
leaves are trailing
to several feet
long.

Eleocharis intermedia
(Muhl.) Schult.

Eleocharis (2)

11340-23 Aug. 1935

Clinton Co., N. Y.

Same place as 11332.

Plants single-stemmed from a cluster of tuberous-thickened roots. Stem somewhat glaucous. Flowers white.

Cicuta maculata L.

Cicuta (2)

1341. 23 Aug 1975.

Clinton Co., N.Y.

Low meadow

Plants mostly along the

ridge-like

flowers white.

Lycopus uniflorus Michx.

Lycopus americanus (2)

17000 ft. High 1945
Linton Co. N.Y.
Along old trail in
second growth mixed
conifers and hardwoods
occasional in Ordovician
limestone. A few
rare in northward
of Linton. Elev. 17000 ft.
Shade of pine forest

Agalinus tenuifolia
(Vahl) Raf.

var. *tenuifolia*.

det. Noel H. Holmgren

Hebecladia tenuifolia

11342 - 21 August 1975.

Disturbed soil, in
partial shade, of thin
soil on calcareous lime-
stone flats ca 3 km.
west of Santa, in
desert brushland forest
on a ridge toward
Santa Fe, New Mexico.

50 m. stems

prostrate to ascending
branches, the
apparently very short,
erect.

Euphorbia vermiculata Raf.

Euphorbia vermiculata (2)

11344 August 1925

Spokane Co., 10 mi.
on road 10 mi. S. of
old quarry position. where
road was going to
Golden Lake. on road
between Lemhi and
Sawtooth in heavily
forested region.

3 mi. west of Scio.
Elev. ca. 1500 ft.

Flowers solitary or in small
clusters, on a cluster of
tuberous thickened roots.
Stems somewhat glaucous
pubescent. Flowers white
single, on the long
pedicels.

Sedum telephium L.

Sedum sp.

11.15.15 - August 1915
Clinton Co. NY.
Along edge of hemlock-
hardwood forest
(nearly to spruce, fir)
on Ordovician limestone
substrate ca. 3 km
west of Keith, Conn.
ca 150 m, altitude
Colonial population
about oligomer. Rays
ca 13, tiny.

✓
Solidago canadensis L.
var. *canadensis*

Solidago canad. (3)

11346 - 31 Aug 1937

Openings in mixed
hardwood and ~~pine~~
conifers. Stems with
nodes on flat lying
Ordovician limestone
ca 5 km northwest of
Leota, Ill. ca. 100

Stems solitary or few
together from roots?
Developed shortly
after spring rains.
Rays mostly 11-16.

Solidago puberula Nutt.
var. *puberula* ✓

Solidago puberula (F.)

11347 22 Sept. 1974
Clinton Co., N.Y. Moist,
open places at edges of
hemlock-hardwood
forest, on Ordovician
limestone substrate
ca. 3 km. west of
Saratoga. Elev. ca 150 m.
Plants attaining by
colonial by means of
long, creeping rhizomes.
Rays 20-26, white.
Disk yellow.

Aster simplex Wall.
var. *ramosissimus* (T. & G.)
Gray.

Aster simplex var. (2)

11348 8 April, 1976

BALDWIN

Co., Alabama

In *Ephedra* and *Yucca*
hills ca. $\approx$ 43 km east
of Mobile ^{and 25 km west of} Florida Panhandle

Plants single stemmed,
but producing occasional
offshoots on slender
rhizomes. Rays 8 ^{neutral,} yellow.
Disk corolla with
yellow tube and
usually purple or dark
purple lobes, varying
to sometimes wholly
yellow. ✓

Helenium brevifolium

(Nutt.) A. Wood

Helenium brevifolium (4)

#11349

8 April 1970 17

Walton Co. Wet roadside

barren pile in pine lands

along U.S. highway 98

near Blue Mountain Pass,

ca 65 km west of

Panama City.

Stems ~~are~~ arising singly
from small clusters.

Leaves yellow, mottled

reddish and very numerous

than with herbage

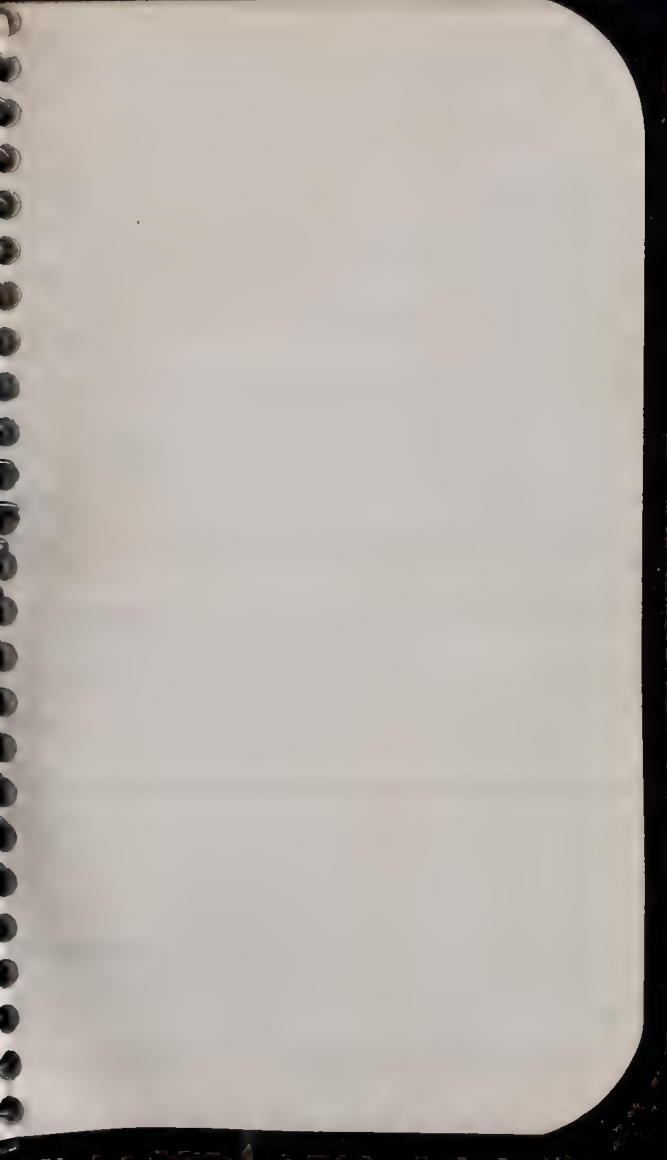
mostly 1-2 cm long.

1-2 cm long. Disk

wholly yellow.

Helianthus vernale Walter

Helianthus vernale (L.)





Arthur Cronquist
29 Dunderberg Road
White Plains, N.Y. 10601

Policy # 0-23-467337
Exp. date Feb 28, 1976

Allstate Insurance Co.
550 Westchester Ave.
White Plains, N.Y. 10607

1970 Plymouth

RL 45 GOW-23 01941

Aster heterophyllus

clumped. cat

white rays,

yellow

disk - 6-7 tubular

rays approx 1.5 cm

Coleopsis nudata

8 rays. lavender -

purple - cat - 2.5 cm.

stem glaucous

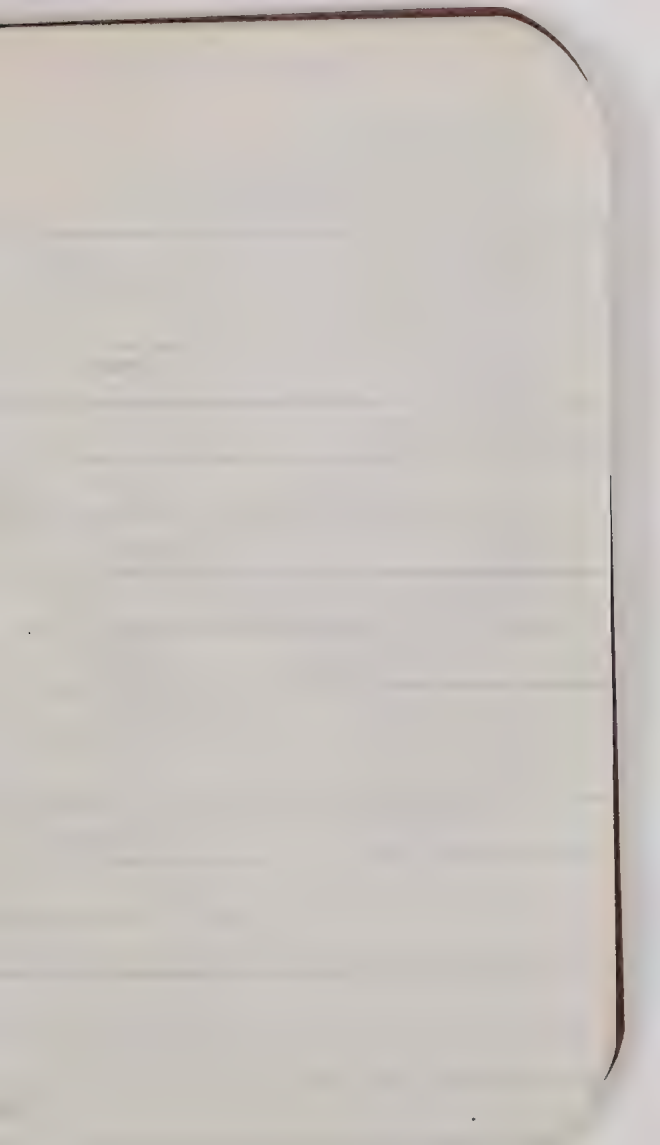
Helenium pinnatifidum

21 yellow rays 1 cm.

yellowish - peduncle

with a few minute

appressed hairs



212

220 8630

8

$$1300 \times 1025$$

$$1365 \times 1000$$

$$380 \times 1050$$

$$1332500$$

$$1365000$$

$$399000$$

$$1025$$

$$\begin{array}{r} 13 \\ \hline \end{array}$$

$$3075$$

$$1025$$

$$\begin{array}{r} 13325 \\ \hline \end{array}$$

$$1050$$

$$38$$

$$\begin{array}{r} 3400 \\ \hline \end{array}$$

$$3150$$

$$37700$$

$$\begin{array}{r} 3096500 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ \hline 61 \end{array}$$

$$4856$$

$$309650$$

$$\begin{array}{r} 26136 \\ \hline \end{array}$$

$$4829$$

$$30492$$

$$4730$$

Jerry

11-11-11

11

46

12

81

10

11

11-11

4-5

9-5

11-11

11-11

11-11

11-11-11

When Columbus
set sail westward
in 1492 he thought he was
going to India, and
when he landed on
an island in the Caribb
ean, he thought he had
got there. His mistaken
interpretation does
not lessen the tremend-
ous importance of
his voyage of discovery,
the consequences of
which are still with
us. It just doesn't
mean what he thought
it did, and the results
are not what he expected.
Something similar may
be true of efforts

To interpret the
phylogeny and taxonomy
of plants on the basis
of amino acid sequences.

484

211

273

33

10

68

13

12

34

53

50

(unpublished)

79

8-79

219-8

153-219

970-153

220 to 970

N.C. to 220

Hayden & Newell

6

